Cuctomer	Number:	000959

Attorney's Docket Number AHN-001

Declaration, Petition and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MSH5 ABLATED MICE AND USES THEREFOR the specification of which

(check one)	
is attached hereto.	
X was filed on December 22, 1999	as
Application Serial No. 09/469,636	
and was amended on(if applicable)	

I do not know and do not believe that the subject matter of this application was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date of this application, or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date of this application on an application filed more than twelve months (six months if this application is for a design) before the filing of this application; and I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

COTTECT HEZBEGO

CLAIM OF BENEFIT OF EARLIER FOREIGN APPLICATION(S)

I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application(s) for patent or inventor's certificate filed by me on the same subject matter having a filing date before that of the application(s) from which priority is claimed.

Check one:

- X no such applications have been filed.
- such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

Country	Application Number	Date of Filing (month,day,year)	Priority Claimed Under 35 USC 119 _Yes No_	
			_ Yes	No _
			_ Yes	No _ No _

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

60/113,487 (Application Serial No.)	December 22, 1998 (Filing Date)
(Application Serial No.)	(Filing Date)

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of any earlier United States application(s) or PCT international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the earlier application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date(s) of the earlier application(s) and the national or PCT international filing date of this application. As to subject matter of this application which is common to my earlier application(s), if any, described below, I do not know and do not believe that the same was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date(s) of said earlier application(s), or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date(s) of said earlier application(s) on an application filed more than twelve months (six months if this application is for a design) before the filing of said earlier application(s); and I acknowledge that no application for patent or inventor's certificate on said subject matter has been filed by me or my representatives or assigns in any country foreign to the United States except those identified herein.

(Application Serial No.)	(Filing Date)	(Status) (patented,pending,aband.)
(Application Serial No.)	(Filing Date)	(Status) (patented,pending,aband.)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

W. Hugo Liepmann James E. Cockfield Thomas V. Smurzynski Ralph A. Lorent, Jr. Ann Lamport Hammitte Elizabeth A. Hanley Amy E. Mandragouras Anthony A. Laurentano Jane E. Remillard Jeremiah Lynch Kevin J. Canning	Reg. No. 20,407 Reg. No. 19,162 Reg. No. 24,798 Reg. No. 29,325 Reg. No. 31,503 Reg. No. 31,505 Reg. No. 33,505 Reg. No. 36,207 Reg. No. 38,220 Reg. No. 38,872 Reg. No. 17,425 Reg. No. 35,470 Reg. No. 35,470	Catherine J. Kara Jeanne M. DiGiorgio Megan E. Williams Nicholas P. Triano III Peter C. Lauro Timothy J. Douros John L. Welch DeAnn F. Smith William D. DeVaul David J. Rikkers Chi Suk Kim	Reg. No. 41,106 Reg. No. 41,710 Reg. No. 43,270 Reg. No. 36,397 Reg. No. 32,360 Reg. No. 23,360 Reg. No. 28,129 Reg. No. 36,683 Reg. No. 42,483 Reg. No. 42,483 Reg. No. 42,728
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Send Correspondence to <u>Amy E. Mandragouras</u> at Customer Number: 000959 whose address is:

Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109

Direct Telephone Calls to: Amy E. Mandragouras, (617) 227-7400

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	
Winfried Edelmann	Date / /
Inventor's signature	4/11/00
Residence	
5800 Arlington Ave., Apt. 10H	
Bronx, New York 10471	
Citizenship	
German	
Post Office Address (if different)	

Full name of second inventor, if any
Richard D. Kolodner
Inventor's signature

Residence
13468 Kibbings Rd.
San Diego, California 92130
Citizenship
U.S.
Post Office Address (if different)

Full name of third inventor, it any	
Jeffrey W. Pollard	
Inventor's signature	Date //
Valla Co	4////00
Residence	
275 W. Ninety-sixth Street.	
New York, New York 10025	
Citizenship	
U.S.	
Post Office Address (if different)	

Full name of fourth inventor, if any	
Raju S. Kucherlapati	Date / /
Inventor's signature	4/11/80
Residence	
Five Gracie Lane	
Darrien, Connecticut 06820	
Citizenship	
U.S.	
Post Office Address (if different)	

Customer	Number	000050

Attorney's Docket Number AHN-001

Declaration, Petition and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

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(check one)		
is attached hereto.		
X was filed on December 22, 1999	as	
Application Serial No. 09/469,636		
and was amended on		

(if applicable)

I do not know and do not believe that the subject matter of this application was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date of this application, or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date of this application on an application filed more than twelve months (six months if this application is for a design) before the filing of this application; and I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.



I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application(s) for patent or inventor's certificate filed by me on the same subject matter having a filing date before that of the application(s) from which priority is claimed.

Check one:

- X no such applications have been filed.
- such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

Country	Application Number	Date of Filing (month,day,year)	Under 35	Priority Claimed Under 35 USC 119	
			- Yes	No_	
			_ Yes	No _	
			_ Yes	No_	
			_ Yes	No_	
			_Yes	No _	

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

(Application Serial No.)

CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

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60/113,487 (Application Serial No.)	December 22, 1998 (Filing Date	
(Application Serial No.)	(Filing Date	e)
CLAIM FOR BE	NEFIT OF EARLIER	U.S./PCT APPLICATION(S)
application(s) or PCT international and, insofar as the subject matter o earlier application(s) in the manner Code, §112, I acknowledge the dube material to patentability as defibecame available between the filin PCT international filing date of this common to my earlier application believe that the same was known of described in a printed publication described in a printed publication more than one year prior to the dato be patented or made the subject or assigns in a country foreign to application(s) on an application of	application(s) design of each of the claims o or provided by the first ty to disclose to the Orned in Title 37, Code eng date(s) of the earlier is application. As to son(s), if any, described to used by others in the in any country or in prete(s) of said earlier apt of an inventor's certification. It is considered and in the United States prion led more than twelve if said earlier application and in the United States prion certificate on said sure	e United States of patiented or ublic use or on sale in the United States plication(s), or first patented or caused ficate by me or my legal representatives to the date(s) of said earlier months (six months if this application on(s); and I acknowledge that no thiest matter has been filed by me or
(Application Serial No.) (F	iling Date)	(Status) (patented,pending,aband.)

(Filing Date)

(Status)

(patented,pending,aband.)



POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

W. Hugo Liepmann James E. Cockfield Thomas V. Smurzynski Ralph A. Loronti, Jr. Ann Lamport Harmitte Elizabeth A. Hanley Amy E. Mandragouras Anthony A. Laurentano Jane E. Remillard Jeremiah Lynch Kevin J. Canning David A. Lane, Jr.	Reg. No. 20,407 Reg. No. 19,162 Reg. No. 24,798 Reg. No. 29,325 Reg. No. 31,503 Reg. No. 34,858 Reg. No. 33,505 Reg. No. 36,207 Reg. No. 38,220 Reg. No. 38,872 Reg. No. 17,425 Reg. No. 35,470 Reg. No. 35,470	Catherine J. Kara Jeanne M. DiGiorgio Megan E. Williams Nicholas P. Triano III Peter C. Lauro Timothy J. Douros John L. Welch DeAnn F. Smith William D. DeVaul David J. Rikkers Chi Suk Kim	Reg. No. 41,106 Reg. No. 41,710 Reg. No. 43,270 Reg. No. 36,397 Reg. No. 32,360 Reg. No. 28,129 Reg. No. 36,683 Reg. No. 42,473 Reg. No. 42,483 Reg. No. 42,483 Reg. No. 42,822 Reg. No. 42,728
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Winfried Edelmann	:
Inventor's signature	Date
Residence 5800 Arlington Ave., Apt. 10H Bronx, New York 10471	
Citizenship	
Post Office Address (if different)	

Full name of second inventor, if any	
Richard D. Kolodner	Data
Inventor's signature Thut D. Hali	Date April 5, 2000
Residence	
13468 Kibbings Rd.	
San Diego, California 92130	
Citizenship	
U.S.	
Post Office Address (if different)	

Full name of third inventor, if any Jeffrey W. Pollard	
Inventor's signature	Date
Residence 275 W. Ninety-sixth Street. New York, New York 10025	и
Citizenship	
V.S. Post Office Address (if different)	

Full name of fourth inventor, if any		
Raju S. Kucherlapati	D-4-	
Inventor's signature	Date	
Residence		
Five Gracie Lane		
Darrien, Connecticut 06820		
Citizenship		
U.S.		
Post Office Address (if different)		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

If re the application of the fried Edelmann, Richard D. Kolodner, Jeffrey W. F. d, and Raju S. Kucherlapati

Divisional of Serial No.: 09/469,636

Filed: Herewith

For: METHODS FOR IDENTIFYING COMPOUNDS WHICH MODULATE THE ACTIVITY OF MSH5 (As amended)

Attorney Docket No.: AHN-001DV1

The Unit:

Examiner:

Assistant Commissioner to	or Patents
Washington, D.C. 20231	

Washington, D.C. 202

CERTIFICATION UNDER 37 CFR 1.10

Date of Deposit: September 11, 2000 Mailing Label Number: EL 011 359 939 US

I hereby certify that this 37 CFR 1.53(b) request and the documents referred to as attached therein are being deposited with the United States Postal Service on the date indicated above in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and addressed to the Assistant

Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Name of Person Mailing Paper
Signature of Person Mailing Paper

ASSOCIATE POWER OF ATTORNEY

Sir:

The undersigned attorney has the power of attorney in the subject application. She

hereby grants an associate power to:

Maria C. Laccotripe LAHIVE & COCKFIELD, LLP 28 State Street Boston, MA 02109

As demonstrated by Appendix A (submitted herewith) Maria C. Laccotripe has passed the Patent Bar Examination and has been granted limited recognition under 37 C.F.R. § 10.9(b).

Please continue to forward all written and telephonic communications to Amy E.

Mandragouras at the address and telephone number listed below.

Respectfully submitted,

Ann Lampor Hammitte Registration No. 34,858 Attorney for Applicants

LAHIVE & COCKFIELD, LLP 28 State Street Boston, MA 02109

Tel. (617) 227-7400 Dated: September 11, 2000

DOGERYST DOILD

BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE UNITED STATE PATENT AND TRADEMARK OFFICE

LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)

Maria C. Laccotripe is hereby given limited recognition under 37 CFR § 19.9(b) as an employee of Lahive and Cockfield to prepare and prosecute patent applications wherein the patent applicant is the client of Lahive and Cockfield, and the attorney of agent of record in the applications is a registered practitioner who is a member of Lahive and Cockfield. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Maria C. Laccotripe ceases to lawfully reside in the United States, (ii) Maria C. Laccotripe's employment with Lahive and Cockfield ceases or is terminated, or (iii) Maria C. Laccotripe ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: October 5, 2000

Harry D.Moatz Acting Director.